

area along one edge of said upper surface thereof, positioning a second preselected length of said coated matrix/blanket in an overlapping orientation with said exposed adhesive area of said first positioned length of said coated matrix/blanket, tightly affixing said adhesive lower surface of said second length to said exposed adhesive area of said first length, and successively positioning and tightly affixing together a plurality of additional lengths of said coated matrix/blanket in overlapping orientation to form a substantially continuous composite structure with high strength and exceptional durability.

Claim 2 (original): A method of forming a continuous composite structure according to Claim 1 including the step of applying pressure along said overlapped adhesive surfaces of adjoining lengths of said coated matrix/blanket to form a tight bond therebetween.

Claim 3 (original): A method of forming a continuous composite structure according to Claim 2 wherein pressure is applied along said overlapped adhesive surfaces immediately upon the positioning of each succeeding length of said coated matrix/blanket in an overlapped relationship.

Claim 4 (original): A method of forming a continuous composite structure according to Claim 2 including applying rolling pressure to said overlapped adhesive surfaces.

Claim 5 (original): A method of forming a continuous composite structure according to Claim 2 wherein pressure first is applied along a leading edge of said length of said coated matrix/blanket, followed by applying pressure intermediate of said length, and changing said intermediate pressure to rolling pressure along said overlapped adhesive surfaces over substantially the full length thereof.

Claim 6 (original): A method of forming a continuous composite structure according to Claim 1 including the step of positioning said coated matrix/blanket lengths across a ditch.

Claim 7 (original): A method of forming a continuous composite structure according to Claim 2 wherein said positioning of said coated matrix/blanket lengths and applying pressure thereto are coordinated in a preselected sequence.

Claims 8-11 (canceled)

Claim 12 (currently amended): Mobile continuous structure forming apparatus including a supporting portion, a material supplying portion, a mixing portion, a matrix forming portion and a control portion; said supporting portion including a plurality of spaced upstanding frame members, a plurality of generally horizontally disposed frame members joining adjacent upper and lower ends of said upstanding frame members; said material supplying portion including a plurality of reservoirs including a first liquid reactive resin forming material and a particulate solid additive material, said reservoirs operatively connected with said supporting portion, said reservoirs being connected independently with said mixing portion; said mixing portion including an elongated mixing chamber adjustably disposed adjacent said supporting portion to mix said additive particles with said first liquid resin forming material substantially continuously and form a substantially uniform mixture thereof while encapsulating substantially all of said additive particles with said first liquid resin forming material; said matrix forming portion including first mixture distributing means extending adjustably downwardly from said mixing chamber and being disposed adjacent an outlet thereof to advance a porous blanket through said liquid resin/additive mixture and migrate part of said mixture through said blanket substantially uniformly and form a continuous resin matrix within said blanket [with] and form adhesive outer surfaces on said blanket, second mixture distributing means disposed adjacent said first mixture distributing means for applying a thin coating of a preselected substantially immediately curing resin forming material over a final substrate surface, positioning means disposed adjacent said second mixture distributing means for placement of a structure in a preselected final configuration and advance a coated matrix/blanket into a final configuration on said coated [base] substrate surface, said positioning means including a cantilevered extendable arm assembly pivotally connected with said supporting portion, elongated structure grasping means disposed on said arm assembly, submersible guide means and mixture distributing means disposed adjacent a free end of said arm assembly, pressure applying means disposed adjacent said positioning means applying pressure to said matrix/blanket to

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tightly affix said coated matrix/blanket to said coated [base]
substrate surface; said control portion including programmable
memory means, coordinating means, sensing means, actuating means,
and circuitry transmitting signals from said sensing means to said
5 coordinating means for comparison with said memory means and
activation of said actuating means to form and place a continuous
structure into a preselected final configuration while it is
flexible and adhesive and form a water impervious structure
thereon.

10 Claims 13-20 (canceled)

Claim 21 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said pressure applying
means includes roller means.

15 Claim 22 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said positioning means
includes sensing means and actuating means.

Claim 23 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said positioning means
extends from said supporting portion.

20 Claim 24 (new): Mobile continuous structure forming
apparatus according to Claim 23 wherein said positioning means
includes elongated structure grasping means translatably movable
along a generally horizontally disposed frame section.

25 Claim 25 (new): Mobile continuous structure forming
apparatus according to Claim 24 including pressure applying means
disposed along one edge of said frame section.

30 Claim 26 (new): Mobile continuous structure forming
apparatus according to Claim 21 wherein said pressure applying
means includes spaced roller means independently movable in a
vertical plane.

Claim 27 (new): Mobile continuous structure forming
apparatus according to Claim 24 wherein at least one of said
roller means includes reversible driven roller means.

35 Claim 28 (new): Mobile continuous structure forming
apparatus according to Claim 12 wherein said elongated structure
grasping means includes a pair of cooperating hinged sections.

Claim 29 (new): Mobile continuous structure forming
apparatus according to Claim 24 wherein said elongated structure

grasping means extends between and travels along spaced parallel side rails of said frame section.

Claim 30 (new): Mobile continuous structure forming apparatus according to Claim 29 including control means coordinating the travel of said elongated structure grasping means to equalize the tension across a structure being advanced along a preselected path.

Claim 31 (new): Mobile continuous structure forming apparatus according to Claim 12 including control means coordinating the operation of said pressure applying means with the travel of said elongated structure grasping means.